

Notice of Allowability

Application No.

09/762,876

Applicant(s)

GOUVEA ET AL.

Examiner

Kimnhung Nguyen

Art Unit

2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on 4/14/2005.
2. ☒ The allowed claim(s) is/are 1-6.
3. ☒ The drawings filed on 11 June 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____

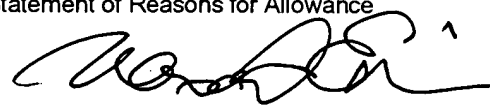
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


ALEXANDER EISEN
PRIMARY EXAMINER
TECHNOLOGY CENTER 2600

DETAILED ACTION

This Application has been examined. The claims 1-6 are pending. The examination results are as following.

Examiner's Amendment

Authorization for this Examiner's Amendment was given in a telephone interview with Mr. Alan M. Koenck on 5/9/2005.

Amendments To The Claims

1. (Currently amended) A matrix analog system for reproducing images by means of sequential devices, built with dedicated components, transistors, passive elements, logic ports, comprising controlling a two-dimensional matrix to activate its light emitting pixels, characterized by an analog pixel matrix control accomplished through two independent sequential distribution devices, controlling by means of their outputs the activation of a non-predetermined number of pixels, said devices having inputs that allow a synchronization of the image through a synchronizing pulse present in a video signal and in a way to permit through internal oscillators in each of said sequential devices dynamic control of the image resolution by controlling sweeping speeds of the lines and columns in the matrix.
2. (Currently amended) The matrix analog system for reproducing images, as in claim 1, further comprising a photoluminescent device including polychromatic pixels, each pixel corresponding to a unique grid and having three anodes, whereby each anode is capable of emitting light with one of three primary colors of visible spectrum (red, green and blue) and having a common cathode.

3. (Currently amended) The matrix analog system for reproducing images, as in claim 1, further comprising an analog memory and drivers for controlling the pixels, said pixels not emitting light when not powered.
4. (Currently amended) The matrix analog system for reproducing images, according to claim 2, further comprising two grid sequences, vertical and horizontal, crossing each other at 90 degrees, which comprise anodes and cathodes layered with monochromatic or polychromatic phosphorus.
5. (Currently amended) The matrix analog system for reproducing images, according to claim 2, featuring as variation of a monochrome version, the anode covered by only one kind of phosphorus corresponding to a desired color, the activation of the grids is performed by the sequential distribution devices, the first sequence of grids being controlled by the vertical sequential distribution device and the other by the horizontal sequential distribution device, presenting only one crossing of the activated grids at a given time, the anodes are always activated by an independent voltage produced by the sequential distribution devices for a higher acceleration of the electrons passing at the vertical and horizontal grids against the phosphorus, obtaining thus a brighter emission of light, as greater as the activating voltage itself, the video signal is applied to the cathode, which maybe cold or hot.

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6. (Currently amended) The matrix analog system for reproducing images, according to claim 2, featuring as variation of a monochrome version a second sequence of grids, each one subdivided into three smaller grids as thick as the phosphorus strips that cover the anodes, the strips are overlaid and the connection of the sequential devices instead of being applied to the anodes strips are now applied to these grid strips, the anodes strips which are now connected all together to receive a fixed voltage.

Reasons For Allowance

The following is an examiner's statement of reasons for allowance: The present invention is directed to a matrix analog system for producing images with sequential devices, built with dedicated component, transistors, passive elements, logic port, for the control of a two-dimensional matrices to activate light emitting pixels. The combination of the closest prior art, Quanrud (US 6,140,983), Vickers (US 6,414,249) show a similar system, however, they fail to teach that a matrix analog system for producing images with sequential devices wherein these devices having inputs that allow a synchronization of the image through a synchronizing pulse present in a video signal and in a way to permit through internal oscillators in each of the sequential devices dynamic control of the image resolution by controlling sweeping speeds of the lines and columns in the matrix as claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number is (571) 272-7698. The examiner can normally be reached on MON-FRI, FROM 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kimnhung Nguyen
May 10, 2005



**ALEXANDER EISEN
PRIMARY EXAMINER
TECHNOLOGY CENTER 2600**